

Figure 1

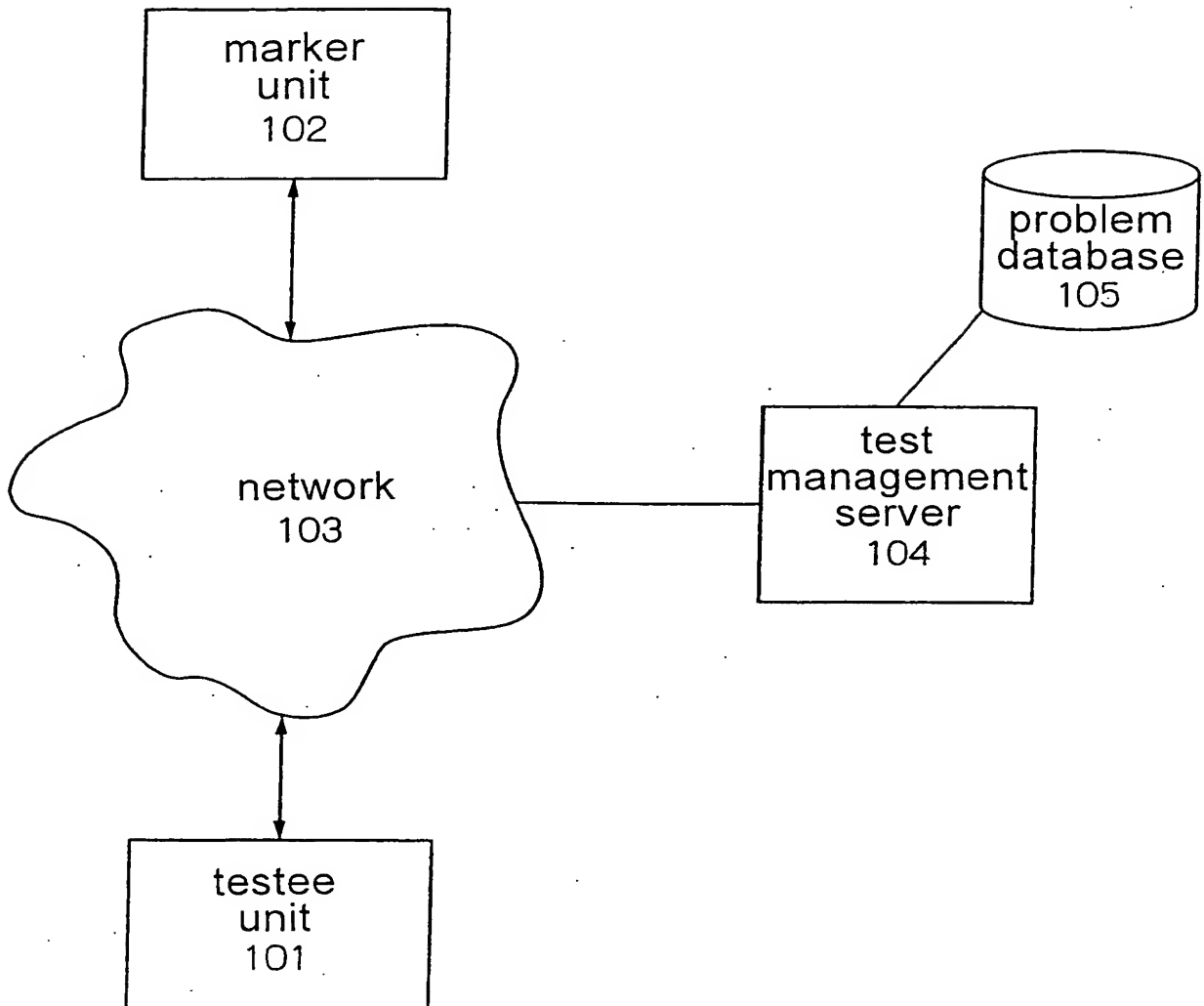


Figure 2

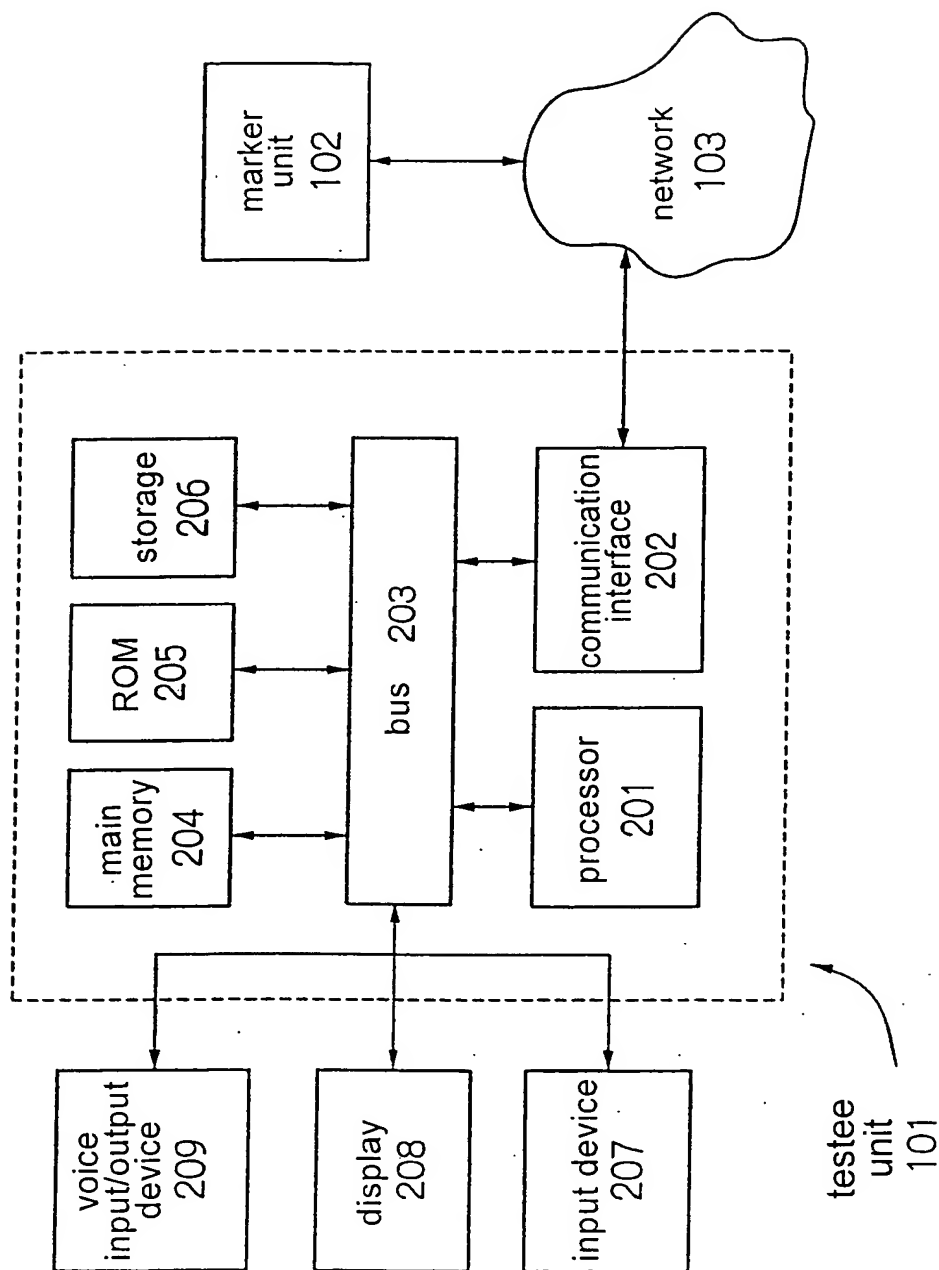
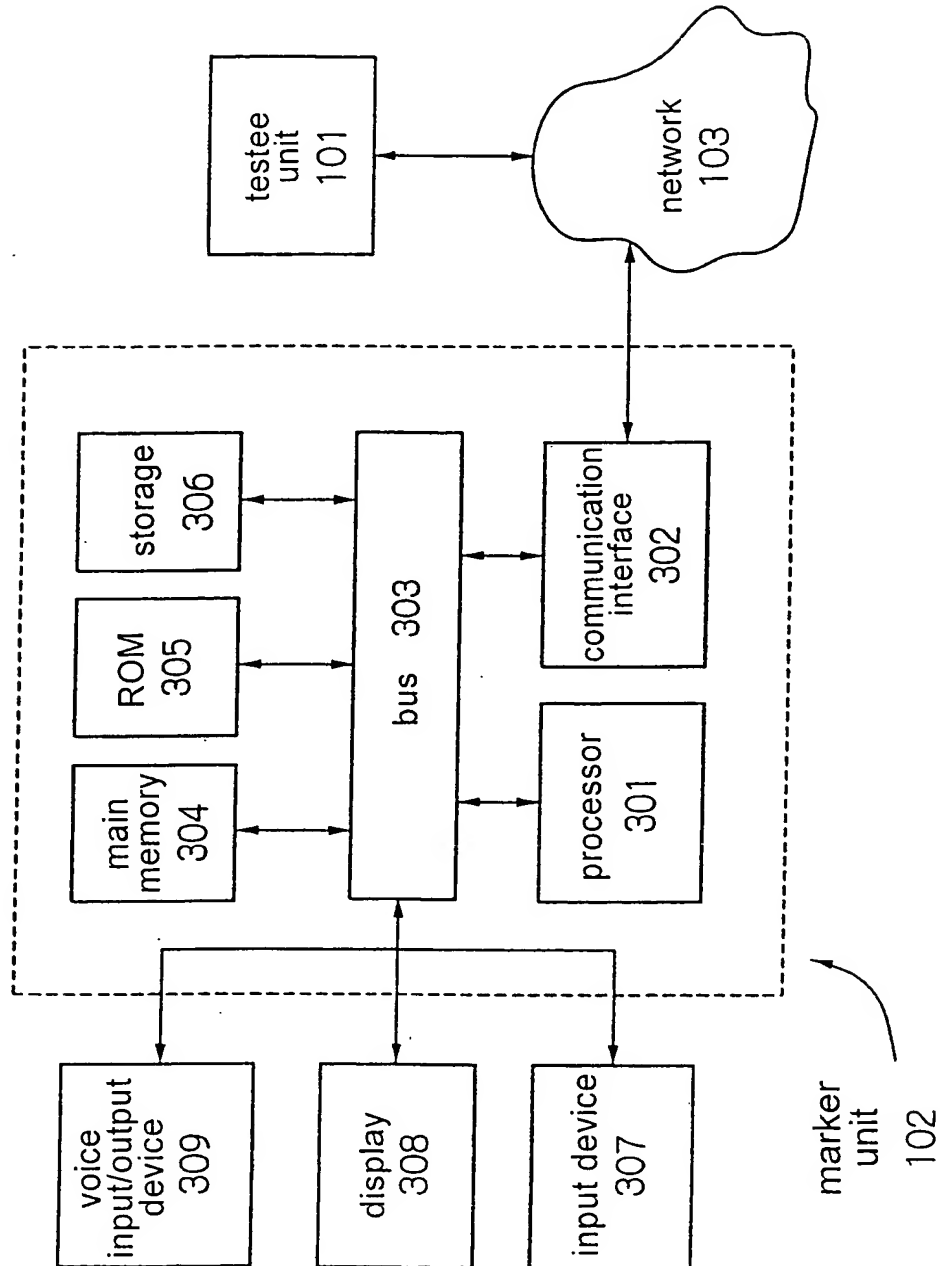


Figure 3



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Figure 4

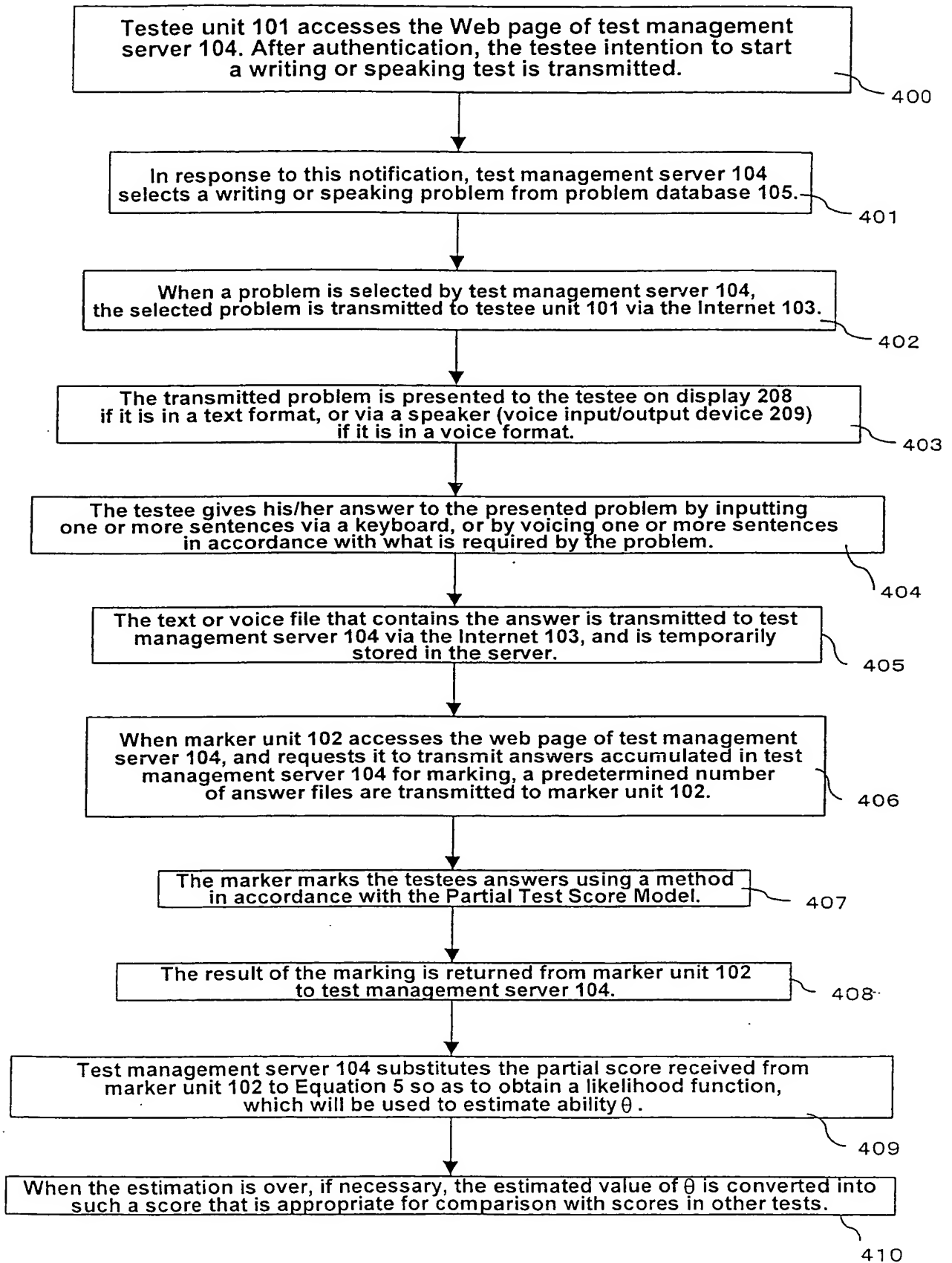
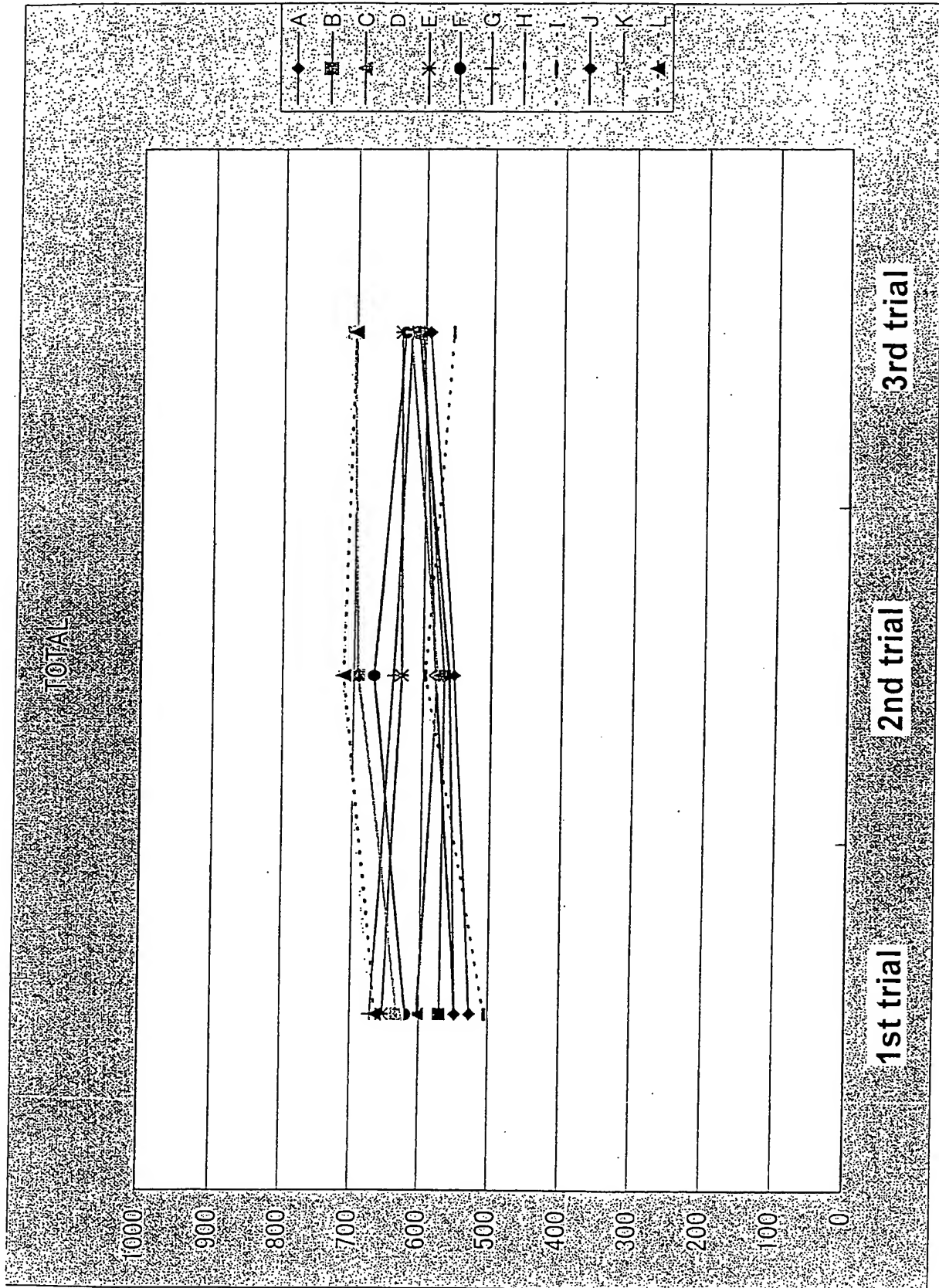


Figure 5

	average of 1st trial	average of 2nd trial	average of 3rd trial	variance
listening (250 pts.)	154. 2	160. 8	158. 2	6. 6
reading (250 pts.)	158. 5	166. 9	177. 0	18. 5
writing (250 pts.)	147. 1	150. 9	154. 8	7. 7
speaking (250 pts.)	142. 1	147. 5	142. 3	5. 4
total score (1000 pts.)	601. 8	625. 9	632. 3	30. 5

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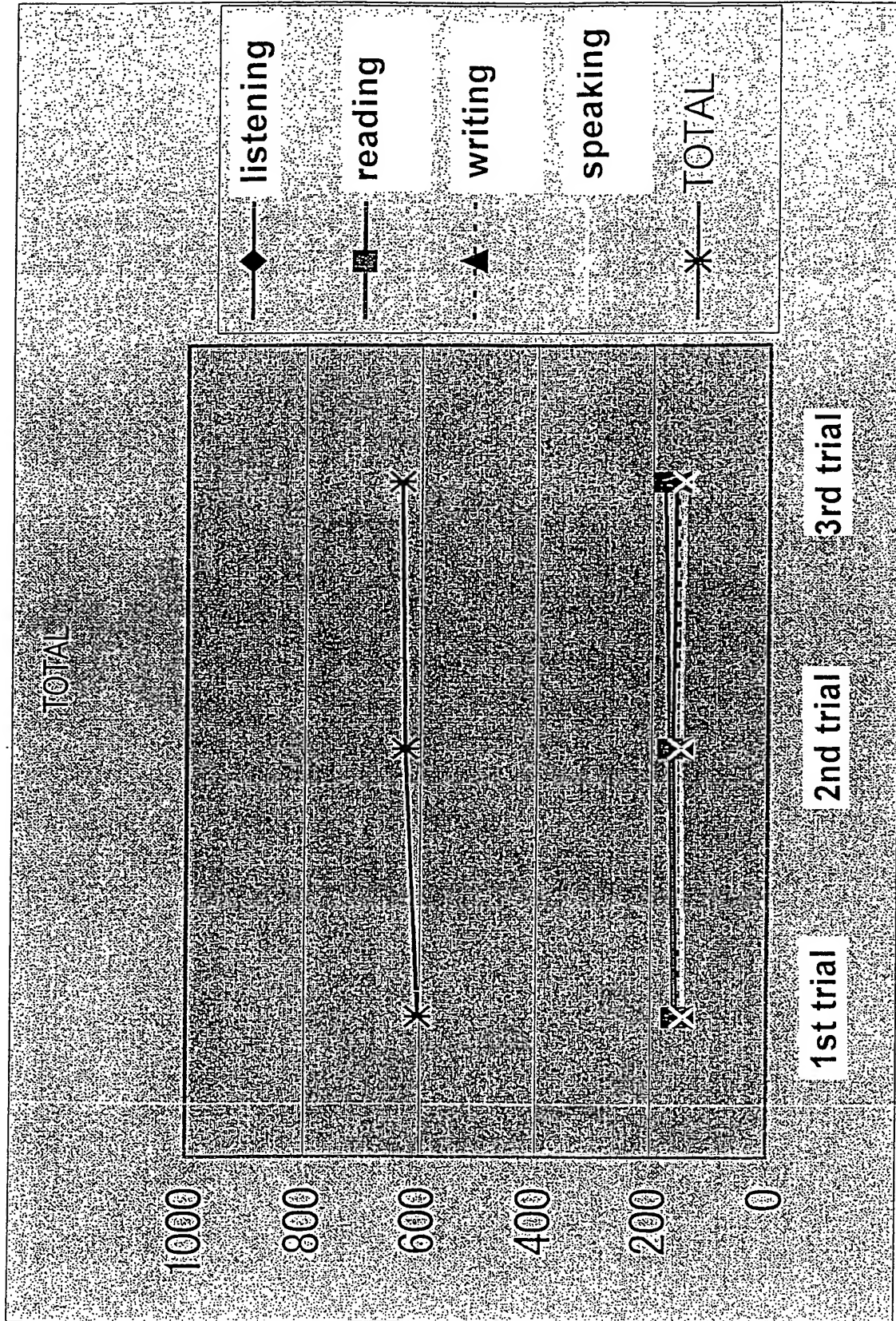
Figure 6 a



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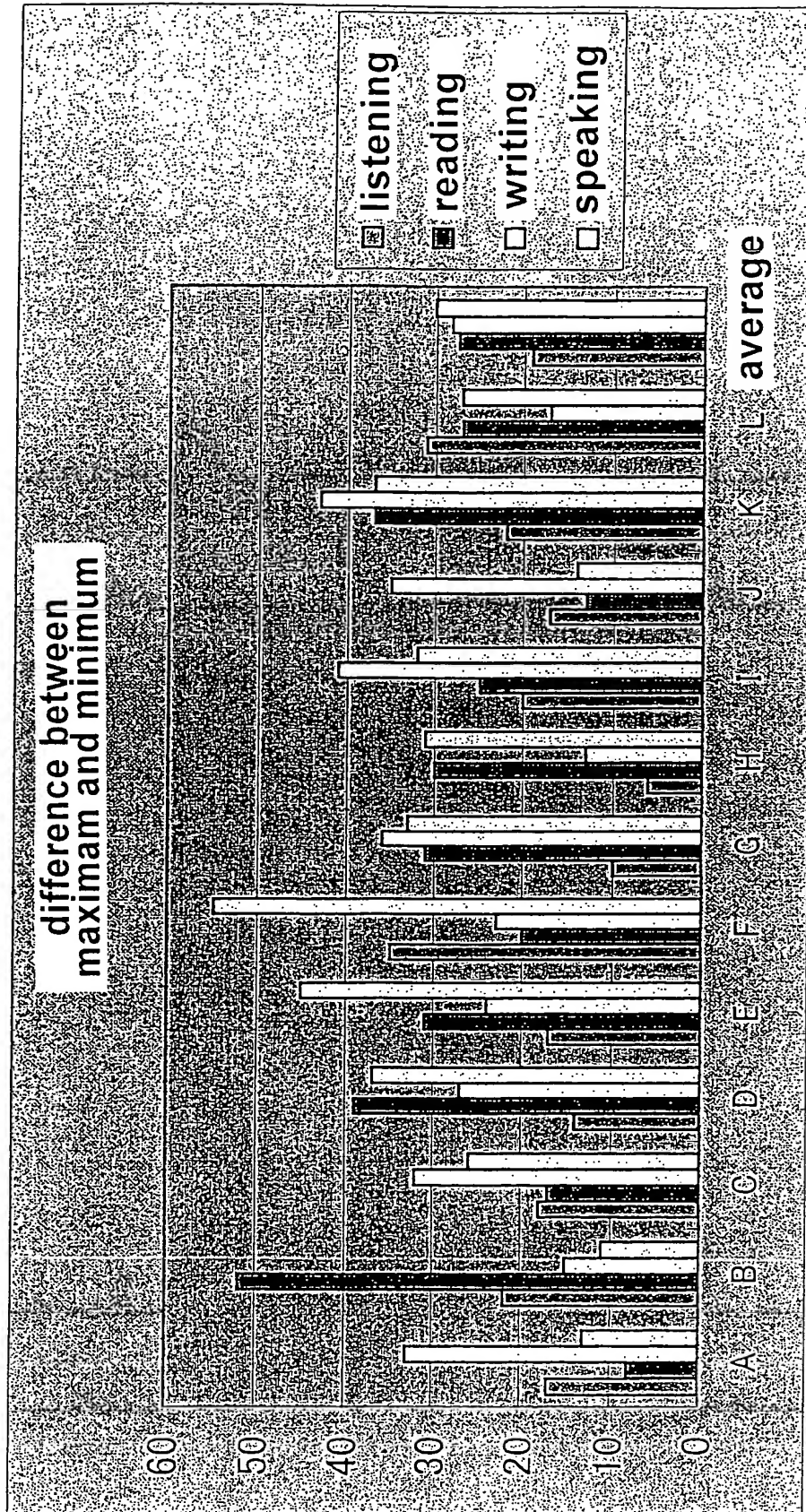
Figure 6 b



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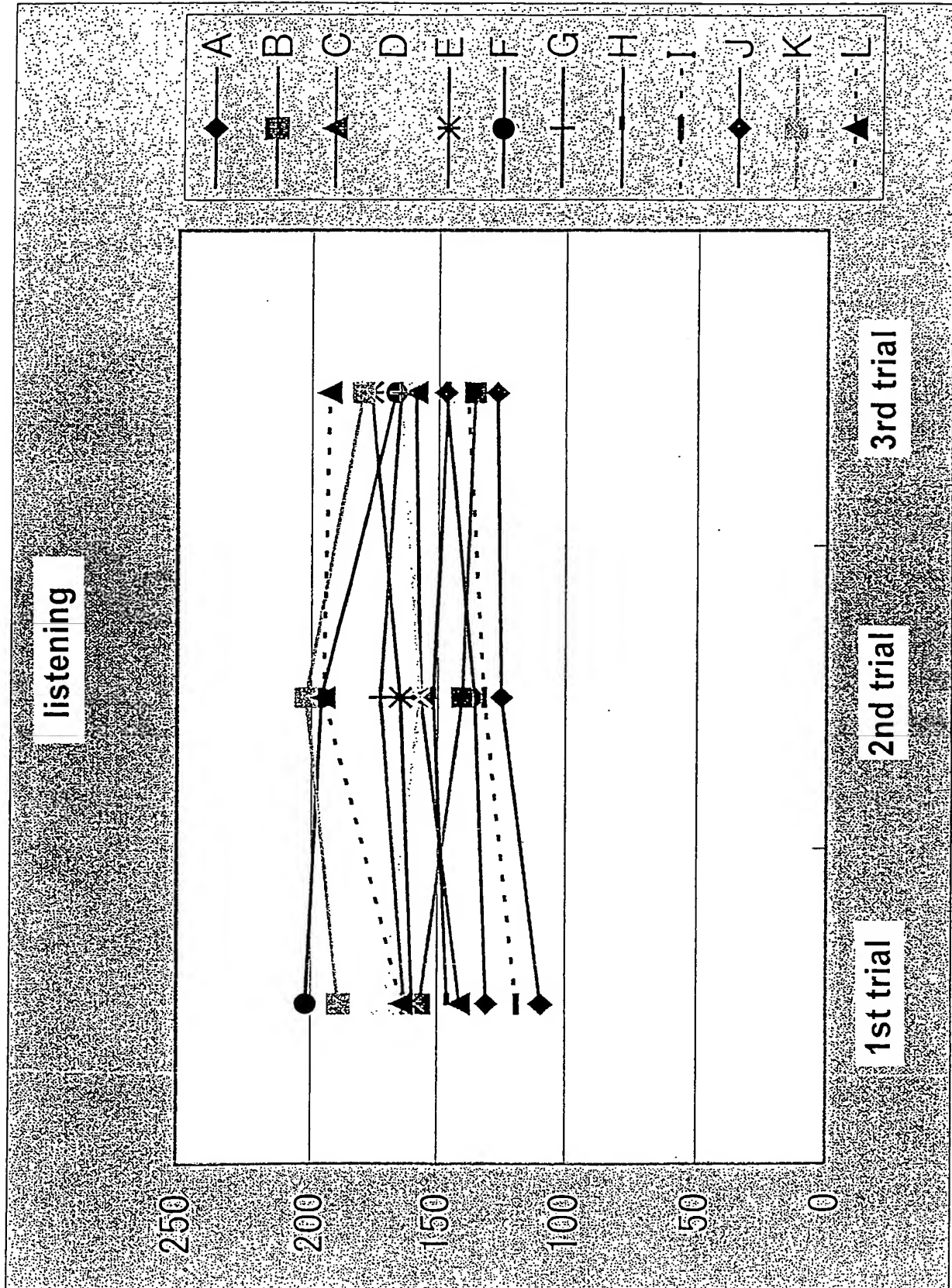
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Figure 6 c



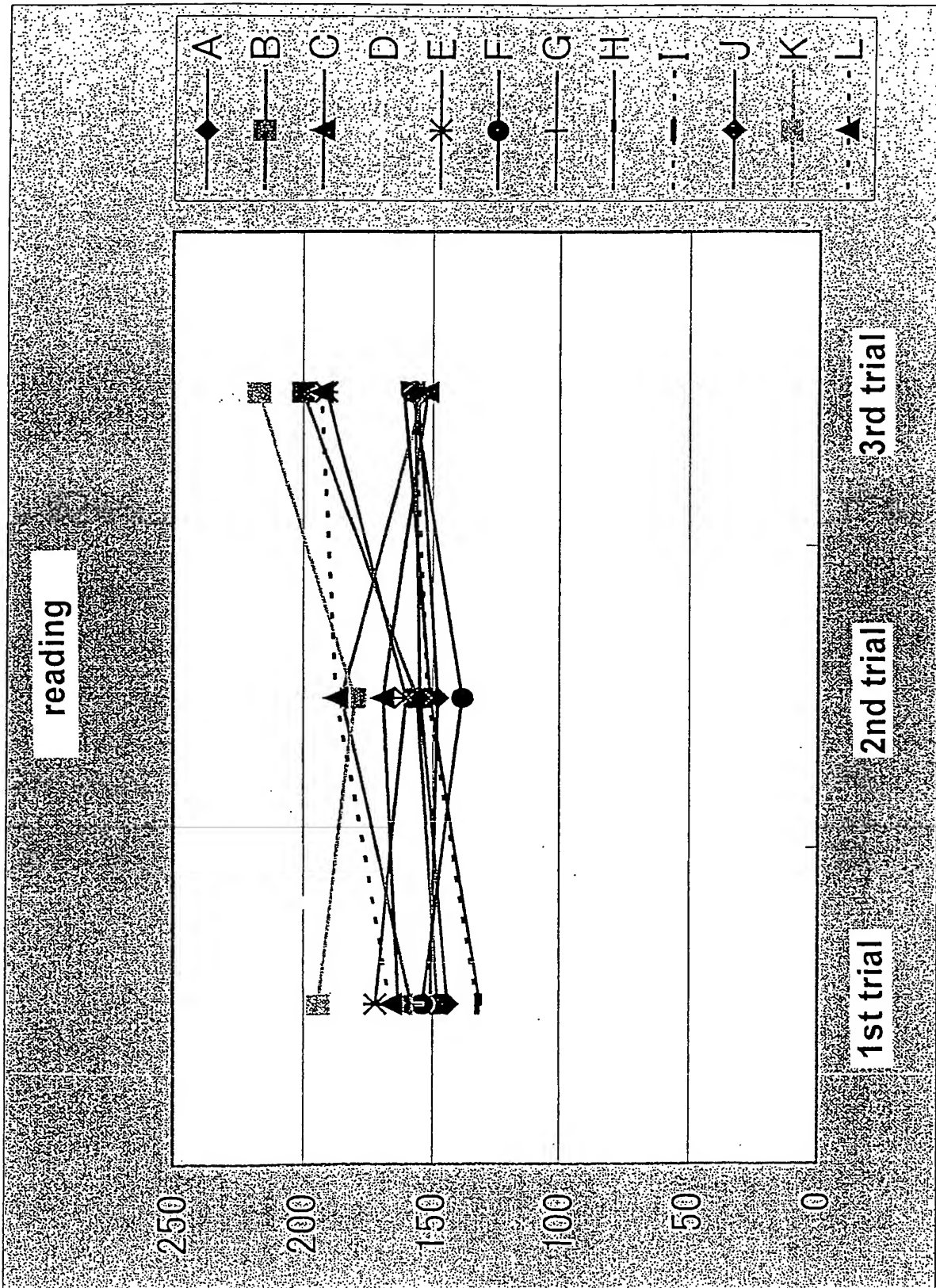
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Figure 6 d



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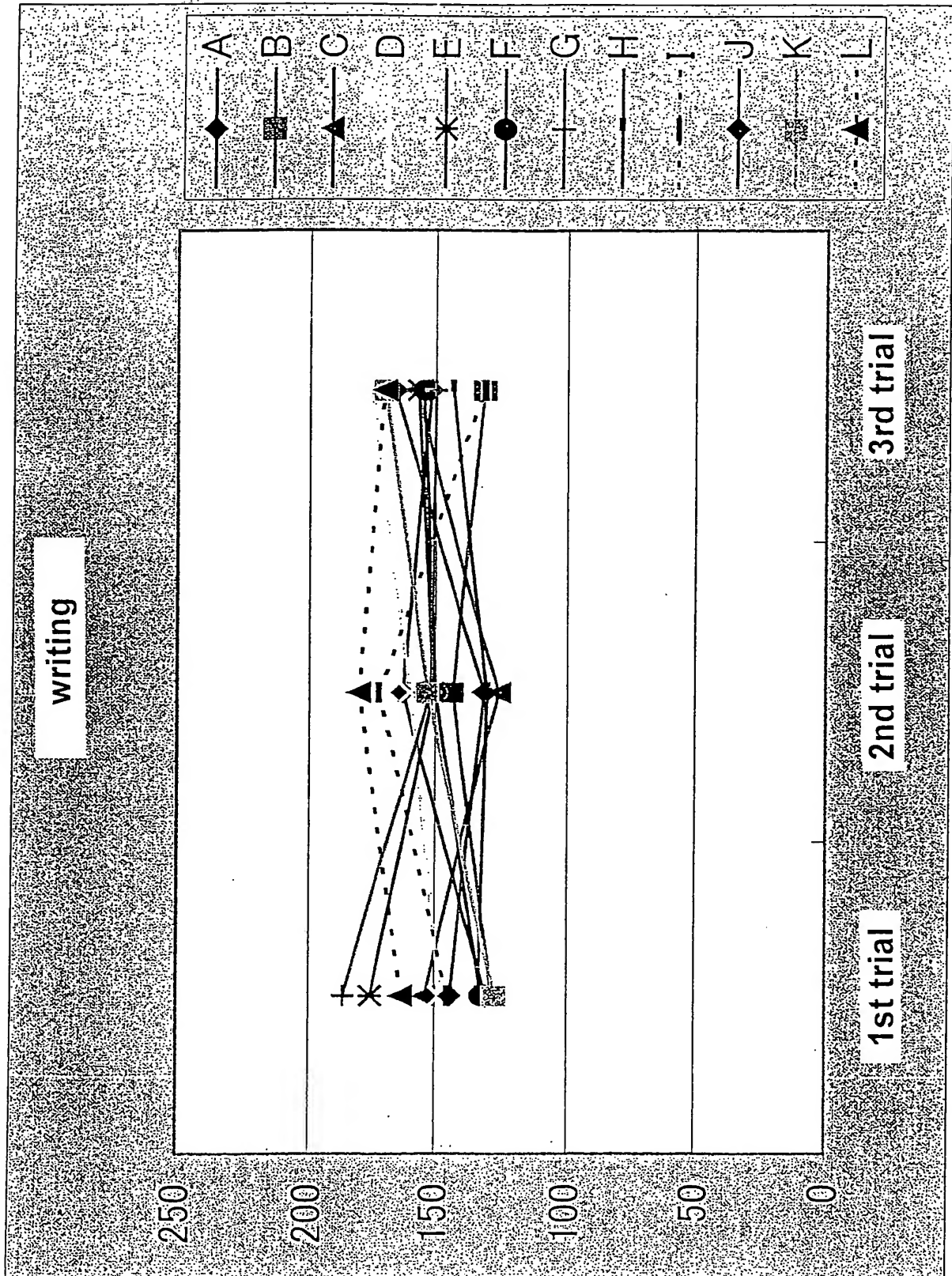
Figure 6 e



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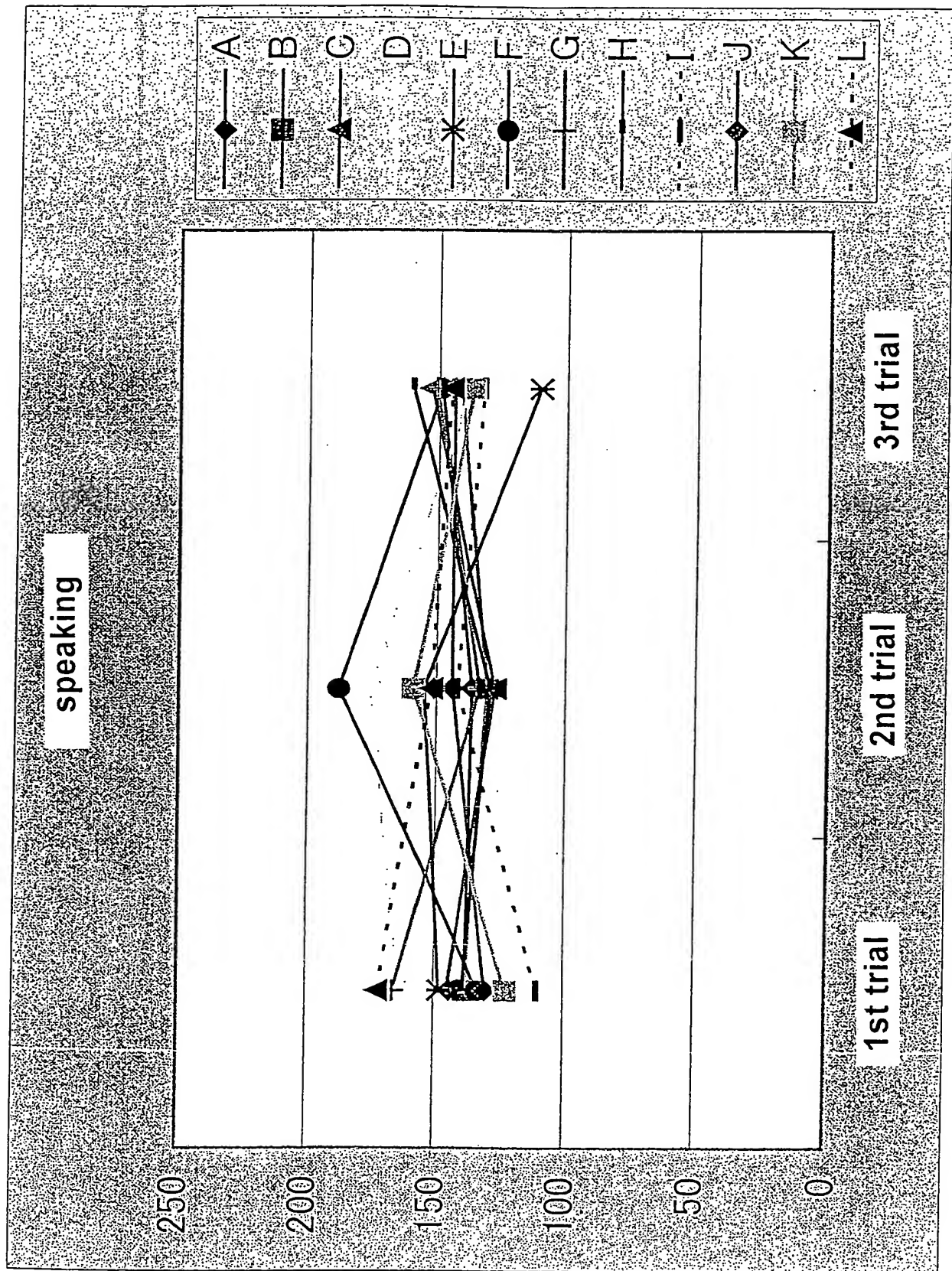
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Fig. 6 f



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Figure 6 g



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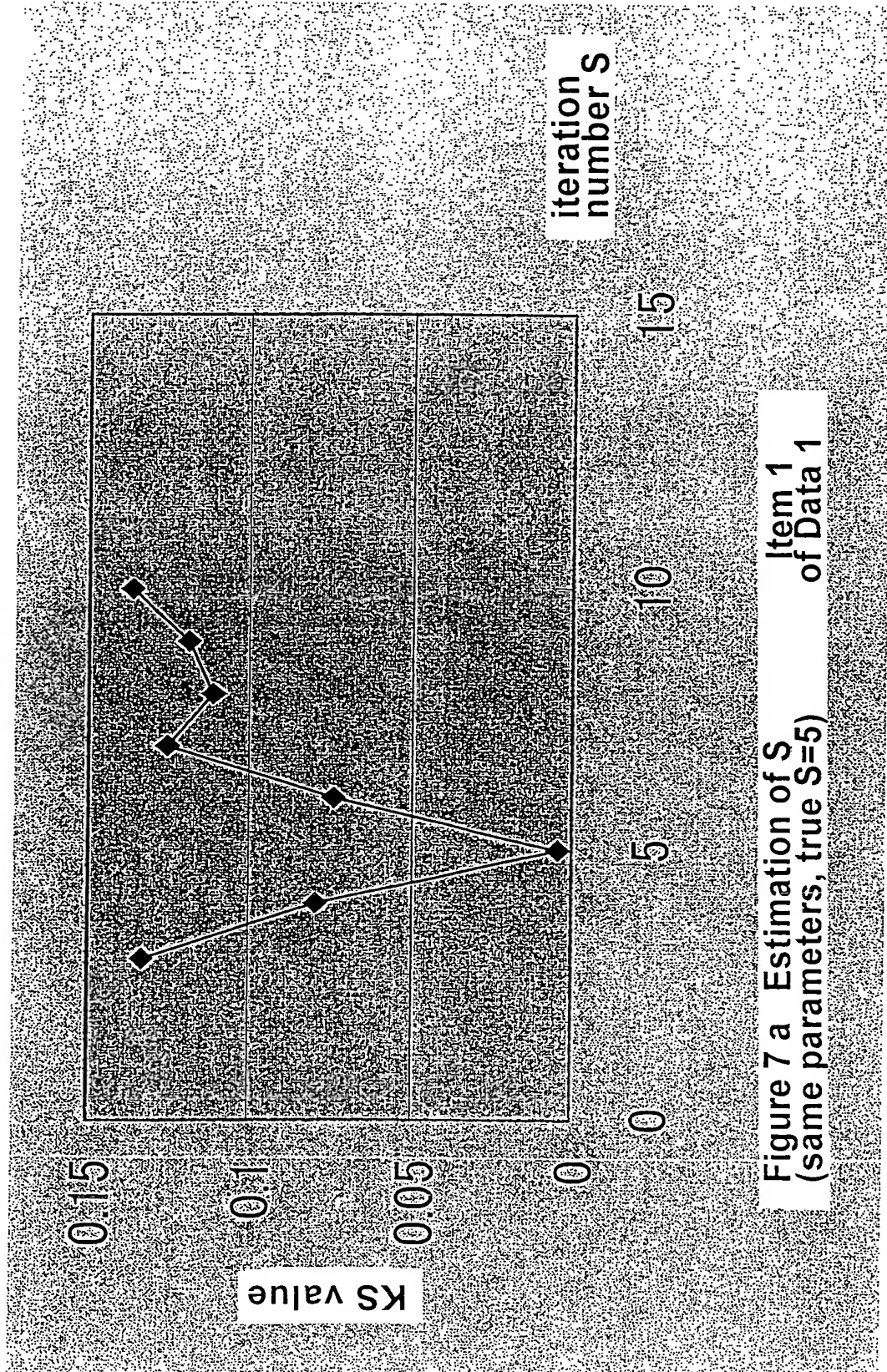


Figure 7 a Estimation of S
(same parameters, true S=5)
Item 1
of Data 1

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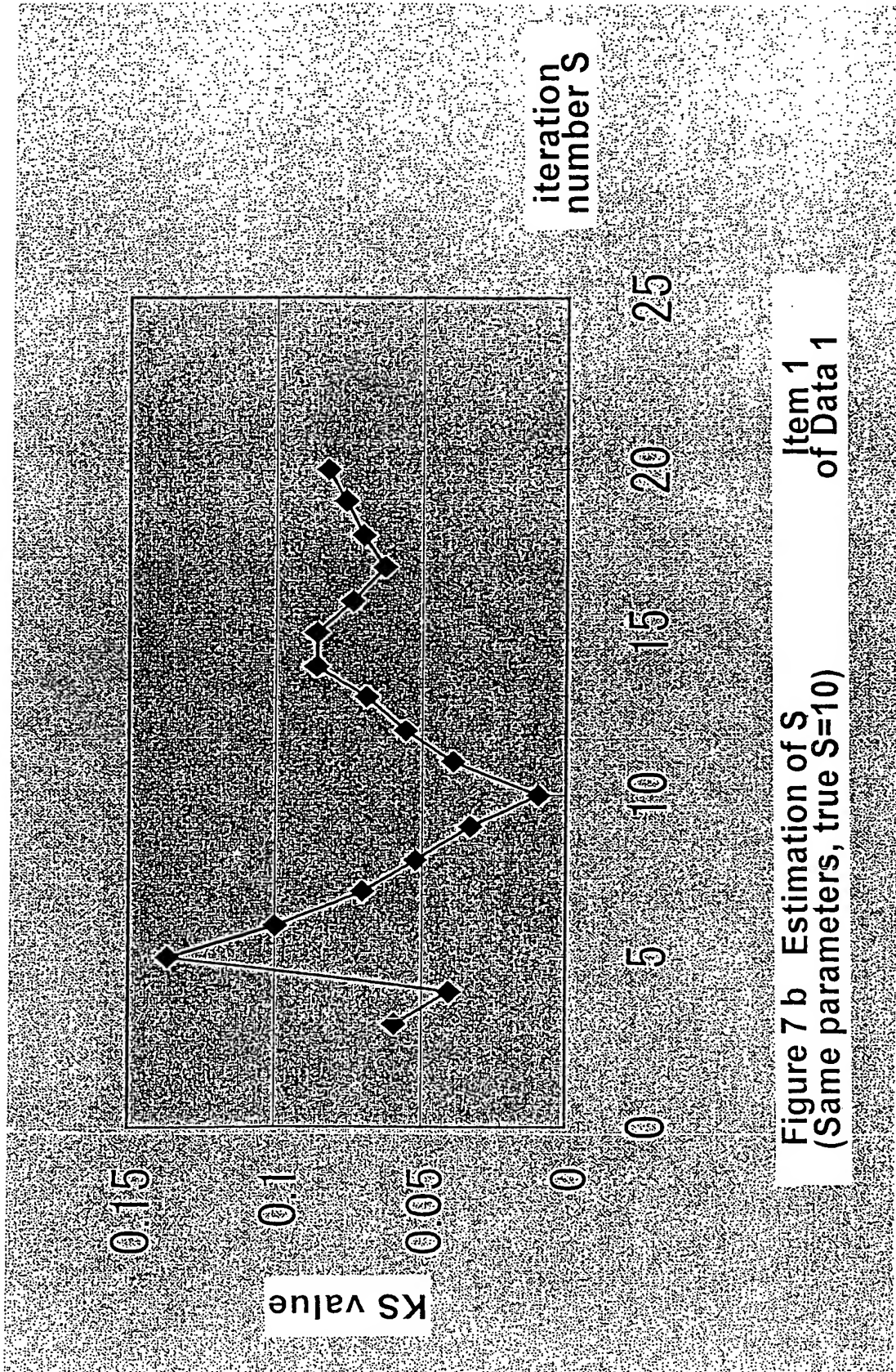


Figure 7 b Estimation of S
(Same parameters, true S=10)

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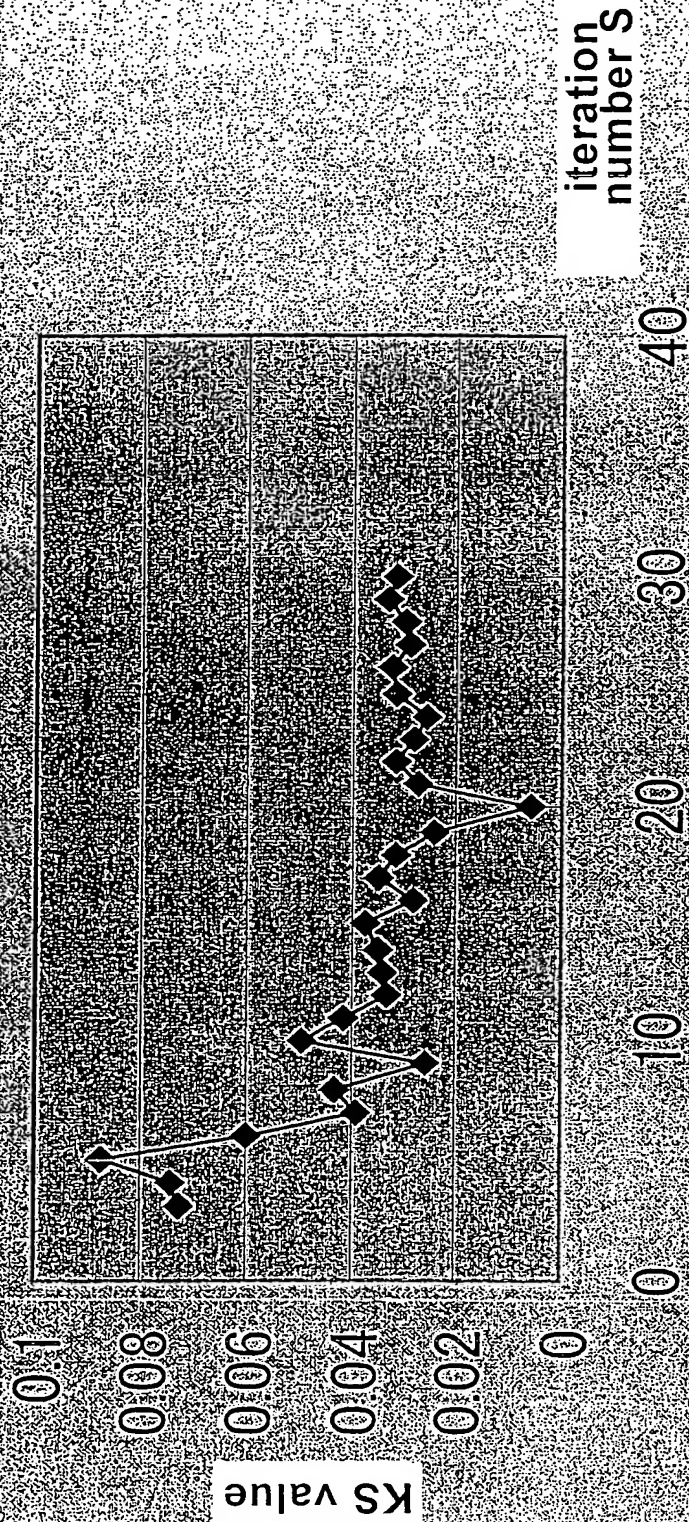


Figure 7 c Estimation of S
(Same parameters, true S=20)

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of Data 1

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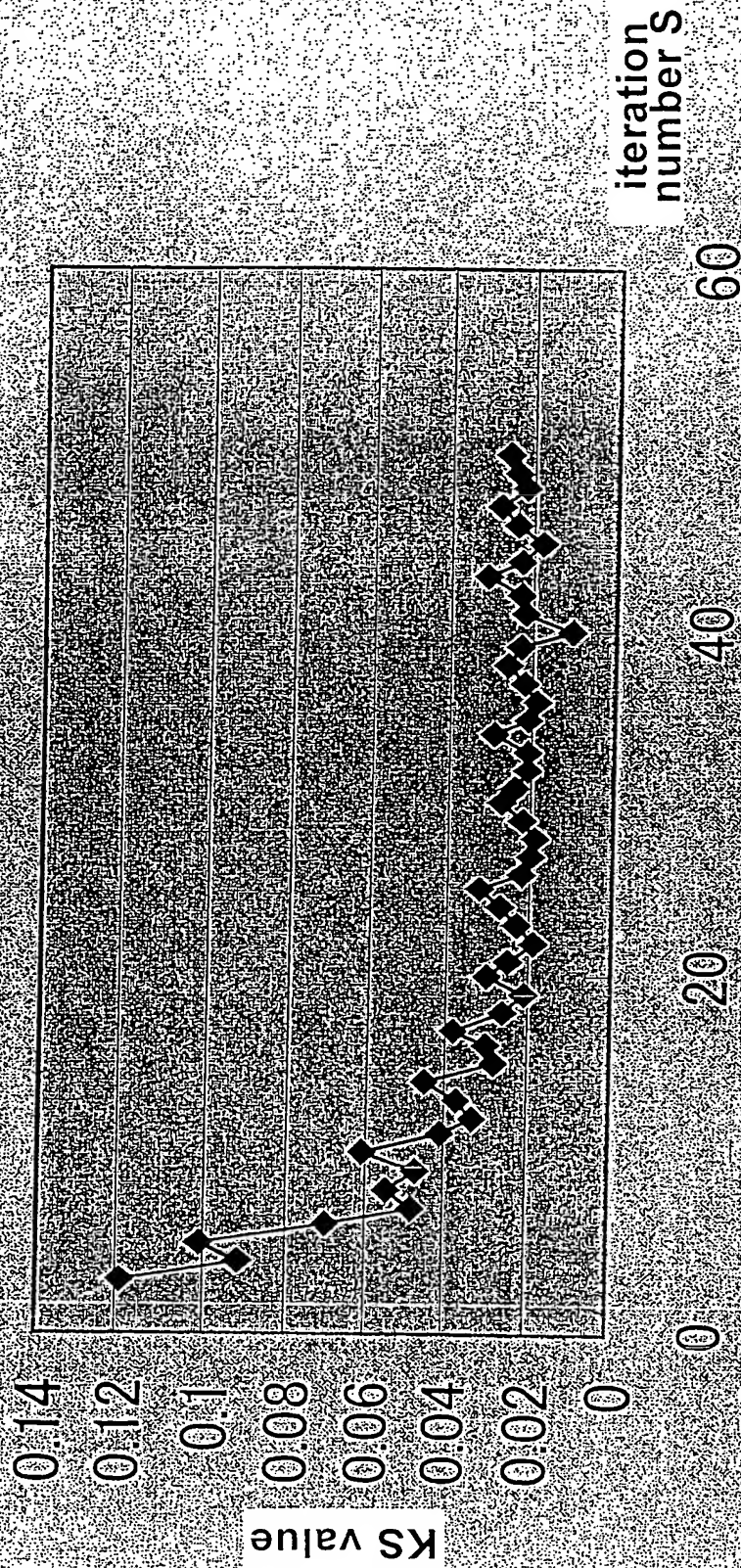


Figure 7 d Estimation of S
(Same parameters, true S=40)

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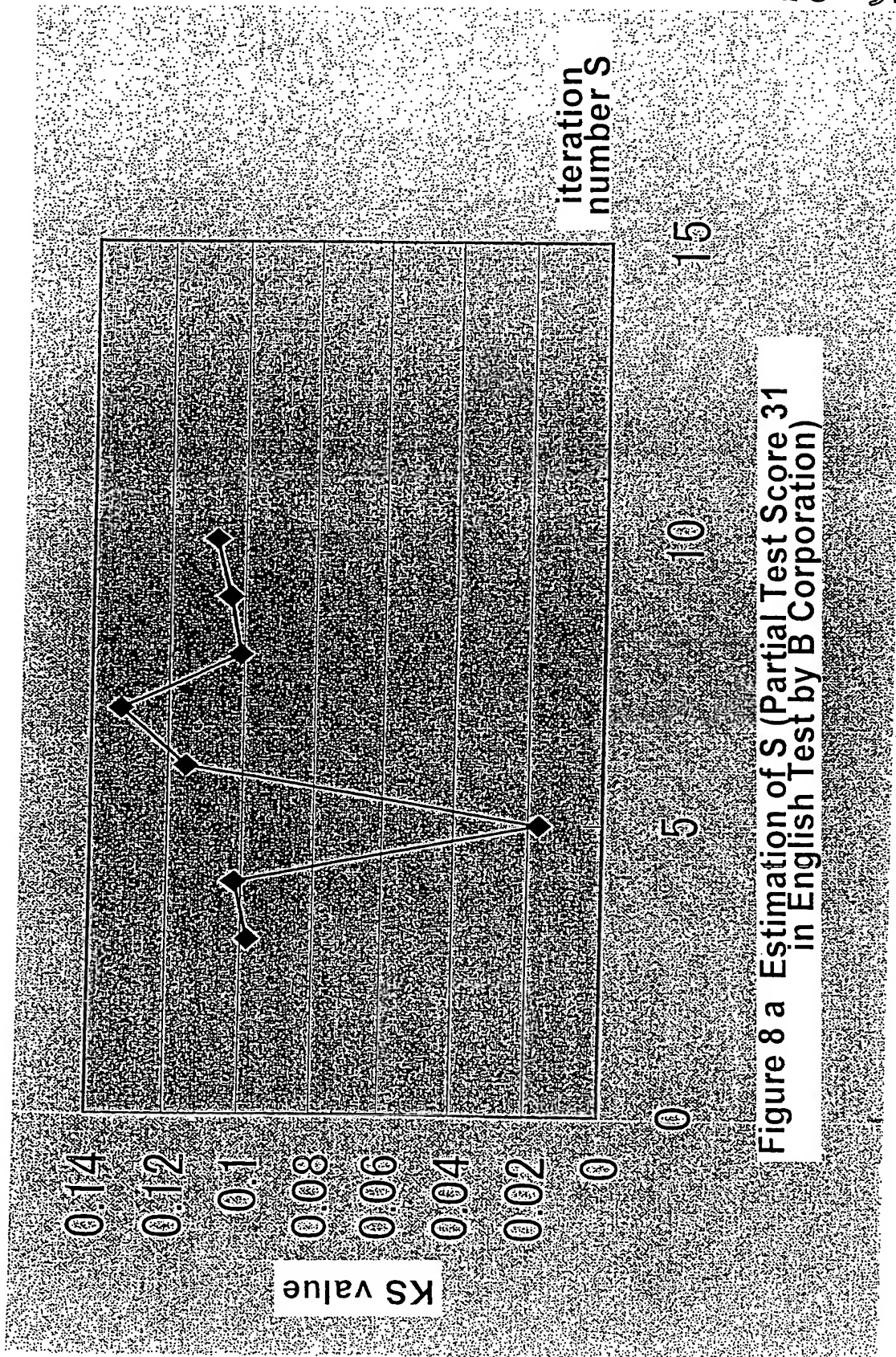


Figure 8 a Estimation of S (Partial Test Score 31
in English Test by B Corporation)

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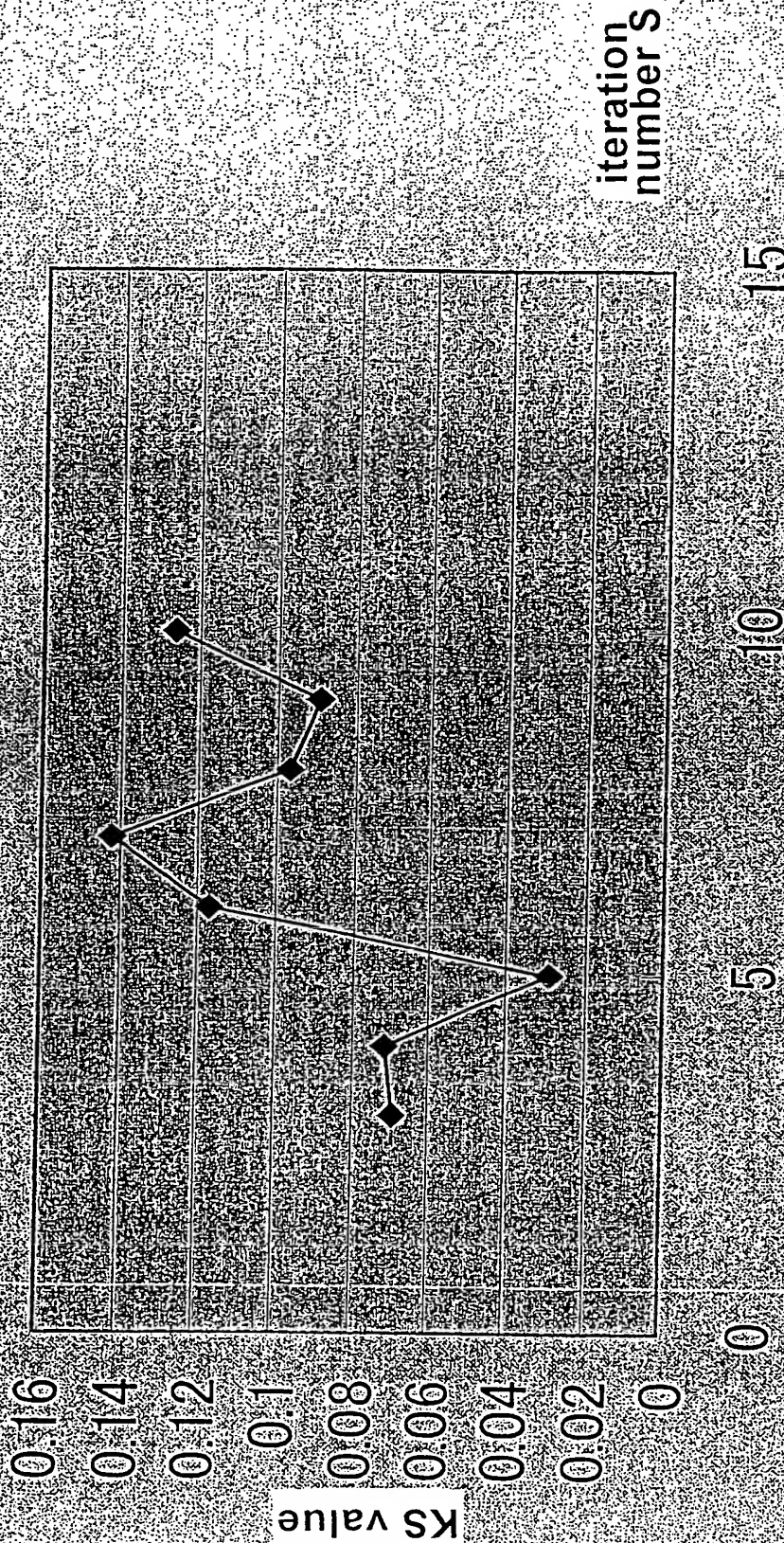


Figure 8 b Estimation of S (Partial Test Score 32
in English Test by B Corporation)